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AUTHORS --

PROFESSOR, AND KORYTOV, K., CANDIDATE KOVALEVA M. PROFESS

TITLE --

ERRONEOUS POSITIONS

NEWSPAPER -- SOTSIALISTICHESKAYA INDUSTRIYA, MARCH 5, 1970, P 2,

COLS 5-8

ABSTRACT -- THE ARTICLE IS A REVIEW OF THE "FORMS OF INDUSTRIAL MANAGEMENT", A BOOK AUTHORED BY B. V. RAKITSKIK. ACCORDING TO THE REVIEW, RAKITSKIY DOUBTS THE VALIDITY OF THE CENTRALIZED PLANNING IN GENERAL, INASMUCH AS IT, IN HIS OPINION, IS INHERENT ONLY TO "UNBALANCED", BACKWARD ECONOMY. UNDER THE PRESENT DAY CONDITIONS, WRITES RAKITSKIY, "THE FUNCTION OF THE EXCHANGE CONTROL CEASES TO BE THE FUNCTION OF SPECIAL CENTRAL AGENCIES". HE LOOKS UPON THEM ONLY AS "ARBITERS". RAKITSKIY, CLAIMS THE REVIEW, ADVOCATES THE NEED FOR COMPETITION BASED ON FREE CHOICE OF BUSINESS PARTNERS AND UNRESTRICTED PRICES AT LEAST "WITHIN THE SPECIFIED RANGE". PRICES AT LEAST "WITHIN THE SPECIFIED RANGE".

IN CONCLUSION, THE AUTHORS OF THE REVIEW EXPRESS THEIR BEWILDERMENT AS TO WHY THE PUBLISHING HOUSE "NAUKA" HAS PUBLISHED THE BOOK. 30 1/1

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UEC 616.12-008.331.1-036.4-085.831.2].4

KOVALEVA, M. P., Sverdlovsk Institute of Health Resort Medicine and Physical Therapy

"Role of Ultraviolet and Solar Radiation in the Comprehensive Treatment of the Initial Stages of Hypertension"

Moscow, Voprosy Kurortologii, Fizioterapii i Lechebnoy Fizicheskoy Kul'tury, No 2, 1973, pp 116-118

Abstract: The great majority of 175 patients with stage I or stage IIA hypertension responded to a course of treatment including ultraviolet radiation (in the winter) or sun baths (in the summer), pine baths, and exercise as evidenced by a marked decrease in complaints of headache, pain in the heart, vertigo, by a marked decrease in complaints of headache, pain in the heart, vertigo, dyspnea, irascibility, and insomnia. Blood pressure returned to normal in two-thirds of the stage I patients and in over one-half to almost two-thirds of the stage IIA patients. Treatment also had a beneficial effect on the main EKG parameters. It did not significantly alter blood cholesterol and A-lipoproperameters. It did not significantly alter blood cholesterol and A-lipoprotein levels when originally normal but lowered them appreciably in those suffering from hypercholesterolemia. Ultraviolet radiation decreased blood suffering from hypercholesterolemia. Ultraviolet radiation decreased blood skin sensitivity to UV rays.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

PROCESSING DATE-- 230CT70 UNCLASSIFIED

TITLE--PURIFICATION AND USE OF WASTE WATERS FROM TEXTILE PLANTS IN 1/2

IRRIGATION -U-

AUTHOR-(02)-KOVALEVA, N.A., UTENKOVA, G.A.

COUNTRY OF INFO--USSR

SOURCE--TEKST. PROM. (MOSCOW) 1970, 30(3), 78-80

DATE PUBLISHED----70

SUBJECT AREAS--AGRICULTURE, MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS--WATER PURIFICATION, INDUSTRIAL WASTE, CROP PRIGATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1999/0411

STEP NO--UR/0342/70/080/003/0078/0080

CIRC ACCESSION NO--APO122591

UNCLASSIFIED

2/2 008
CIRC ACCESSION NO--APO122591
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE PURIFICATION OF WASTE WATERS FROM CERTAIN TEXTILE INDUSTRIES CAN BE CARRIED OUT BY USING IT IN THE FROM CERTAIN TEXTILE INDUSTRIES CAN BE CARRIED OUT BY USING IT IN THE FROM CERTAIN TEXTILE INDUSTRIES. THUS, THE TOTAL WASTE WATER PRODUCTION OF A IRRIGATION OF HAY CULTURES. THUS, THE TOTAL WASTE WATER PRODUCTION OF A PLANT, AMOUNTING TO 6500 M PRIME3-DAY, WAS DISTRIBUTED OVER AN AREA OF PLANT, AMOUNTING TO 6500 M PRIME3-DAY, WAS DISTRIBUTED OVER AN AREA OF 150-300. EVAPN. RESIDUE 450-700. N 80-130. HCD SUBB PRIME NEGATIVE 150-300. EVAPN. RESIDUE 450-700. N 80-130. HCD SUBB PRIME NEGATIVE 120-180. CA 100-240. CL PRIME NEGATIVE 70-100. SO SUBA PRIME2NEGATIVE 120-180. CA 100-240. CL PRIME NEGATIVE 70-100. SO SUBA PRIME2NEGATIVE 120-180. CA 100-240. CL PRIME NEGATIVE 70-100. SO SUBA PRIME2NEGATIVE 120-180. CA 100-240. CL PRIME NEGATIVE 70-100. SO SUBA PRIME2NEGATIVE 120-180. CA 100-240. CL PRIME NEGATIVE 70-100. SO SUBA PRIME2NEGATIVE 120-180. CA 100-240. CL PRIME NEGATIVE 70-100. SO SUBA PRIME2NEGATIVE 120-180. CA 100-240. CL PRIME NEGATIVE 100-180. CA 100-240. CA

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

VDC 621.382.2

AGEYEVA, L. A., KOVALEVA, N. K., and LOGINOVA, L. B.

"Production and Study of Planar Contacts in Gunn Diodes"

Izv. Leningr. elektrotekhn. in-ta (Bulletin of the Lemingrad Electrical Engineering Institute), 1970, Issue 96, pp 60-63 (from RZh-Elektronika i yeye primeneniye, No 8, August 1971, Abstract No 8B134)

Translation: The results are presented of an experimental study of the resistance of contacts for coplanar Gunn-effect diodes. Alloys of AgSn, NiIn, and AgGeIn were used as material for the contacts. The resistance of GaAs ogntacts with an electron concentration of 1015 cm⁻² smounted to 5. 10⁻² phn.cm⁻. A. Ye.

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Acc. Nr: APO036812

PRIMARY SOURCE: Zhurnal Mikrobiologii, Epidemiologii, i Immunobiologii, 1970, Nr 1, pp 3/-35

NEST A MERINANDA PARA COMPANION DE SE CARA COMPANION DE SER DE LA MESA EL MACADA EL CARA COMPANION DE LA CENTRA DE

DYNAMICS OF DISCHARGE OF TYPHOID BACILLI IN CHRONIC CARRIERS IN DIFFERENT SEASONS OF THE YEAR AND ITS SIGNIFICANCE IN THE EPIDE. MIOLOGY OF THE DISEASE

S. R. Khomik, Ya. M. Ferdinand, G. I. Skirda, N. S. Kovaleva, N. S. Solosyv. K. I. Popova, I. P. Timoshkina, M. M. Shelkovich, B. A. Piyaro, Apeykina, M. D. Apeykina, M. D.

The feces of forty five carriers of typhoid bacillus were examined in different seasons of the year. The greatest number of bacilli was discharged from January to May (0.1 to 960 million per gm of feces were the number of bacilli found throughout the year). Therefore, the authors recommend examination of carriers to be carried out mainly during the first half of the year.

There was established no association between the seasonal distribution of the incidence of the disease and the intenisity of bacterial discharge.

D.W.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

1/2 017 UNCLASSIFIED PROCESSING DATE--230CT7C TITLE--CALLICREIN OF THE URINE AND SOME INDICES OF RENAL FUNCTION -U-

AUTHOR-(04)-NEKRASOVA, A.A., CHERNOVA, N.A., SHARAPOV, U.B., KOVALEVA,

COUNTRY OF INFO--USSR

SOURCE--UROLOGIYA I NEFROLOGIYA, 1970, NR 3, PP 12-16

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--KIONEY FUNCTION, BLOOD CIRCULATION, PANCREAS, HORMONE, ESTERASE, HYPERTENSION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/2056

STEP NO--UR/0606/70/000/003/0012/0016

CIRC ACCESSION NU--APOL20699

TEACL ASSIFIED

PROCESSING DATE--230CT7 UNCLASSIFIED 017 2/2 CIRC ACCESSION NO--AP0120699 ABSTRACT. A STUDY WAS MADE OF THE 24 HOUR ABSTRACT/EXTRACT--(U) GP-0-EXCRETION OF CALLICREIN WITH THE URINE OF 33 HEALTHY PERSONS AND 68 PATIENTS SUFFERING FROM VARIOUS CIRCULATORY DISTURBANCES OF THE KIDNEYS CALLICREIN WAS ASSESSED BY DETERMINATION OF ITS ESTERASE ACTIVITY. THERE WAS FOUND A DIRECT RELATIONSHIP BETWEEN THE URINARY EXCRETION OF CALLICREIN AND THE EFFECTIVE RENAL BLOOD FLOW. GALLICREIN EXCRETION DI NOT DEPEND ON THE FILTRATION REABSDRPTION FUNCTION. EXRETION OF CALLICREIN BY THE KIDNEYS WAS REDUCED IN CASES WITH CONSIDERABLE CHANGE OF THE RENOGRAM. IN RENOVASCULAR HYPERTENSION URINARY EXCRETION OF CALLICREIN FELL IN CASES OF BILATERAL STENOSIS OF THE RENAL ARTERIES WITHOUT ADEQUATE DEVELOPMENT OF COLLATERAL CIRCULATION AND ALSO IN UNILATERAL STENOSIS, BUT WITH DISTURBED FUNCTION OF CONTRALATERAL IT WAS FOUND IN EXPERIMENT ON 20 RABBITS WITH RENOVASCULAR KIDNEY. HYPERTENSION THAT ISCHEMIC KIDNEY CONSIDERABLY REDUCED THE SECRETION OF CALLICREIN. WHEREAS THE INTACT KIONEY INCREASED ITS EXCRETION FACILITY: INST. KARDIOLOGII IM. A. L. COMPENSATORILY. HYASNIKOVA AHN SSSR, MOSCOW.

AND A COTETES

USSR

616.981.49-082.38 UDC:

KOVALEVA, T.A., Pervomayskaya Hospital, Tula

"An Outbreak of Food Poisoning Caused by G. dublin"

Moscow, Zhurral Mikrobiologii, Epidemiologii i Immanobiquegii, Ec 2, 1970, pp 131-133

Abstract: In June 1967, some 65 eighth graders who went to the country to assist farm workers developed food poisoning shortly after entire meat from diseased calf prepared under uncanitary conditions. All sed as elevated temperature, headaches, and general weakness. Most complained of chills, nausea, vomiting, abdominal pain, anorexia, frequent liquid attools, and anorexia. Salmonella dublin was isolated from 16 of the pathents. The microorganism was also isolated from the sick calf's bone magrow and kidneys. All the cultures belonged to the same phage type. Gastric lavage was carried out in 17 patients while antibiotics (streptomycln combined with Levagren in or tetracycline) were administered to 21 and only symptoms theated in others. The clinical symptoms disappeared from both those treated and those not treated with antibiotics at about the same time. All were discharged ofter 9-11 days in the hospital.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

USSR

UDC 576.898.5.095.383

SELIVANOV, A. A., KOVALEVA, T. P., AKSENOV, O. A., YURLOVA, T. I., LYSOY, V. V., KRYLOV, V. A., and SMORODINTSEV, A. A., Ali-Union Scientific Research Institute of Influenza, Ministry of Health USSR, Leningrad

"Anti-Interference Effect of Adenoviruses"

Moscow, Voprosy Virusologii, No 5, Sep/Oct 72, pp 574+577

Abstract: Crude adenoviruses, serotype 1, 4, and 7 adenoviruses heated to 56°C for 30 min, and purified pentone antigen of serotype 4 suppress induction of interferon by influenza A2 Houg Kong Virus and inhibit interference between influenza A2 virus and vesicular stomatițis virus in chick embryo fibroblasts. Adenoviruses treated with trypsin, fibrantigen, and hemome-antigen no longer have this capacity. There is a good direct correlation between the cytotoxic, anti-interference, and anti-interferon-inducing capacities of the abovementioned strains of adenoviruses. None of these strains stimulates reproduction of vesicular stomatitis virus. It is postulated that enti-interference is due not only to inhibition of interferon production but also to reduction of the activity of previously produced interferon.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

UDC 576.858.5.095/.097

USSR

KOVALEVA, T. P., YURLOVA, T. I., BOLDASOV, V. K., LYSOV, V. V., RUDENKO, L. G., AKSENOV, O. A., and SELIVANOV, A. A., All Union Scientific Research Institute of Influenza, Ministry of Health USSR, Leningrad

"Biological Properties of Two Strains of Adenovirus Serbtype 4"

Moscow, Voprosy Virusologii, No 6, Nov/Dec 71, pp 700-703

Abstract: A comparative study of normal and attenuated strains of adenovirus serotype 4 revealed a number of significant differences. While at the optimum culture growth temperature of 37°C, both strains reproduce at the same rate, at 28°C the attenuated strain proliferates much fluster and at 40°C much slower than the parent strain. While both strains are almost equally sensitive to human leukocytic interferon, the attenuated strain is significantly more sensitive to nonspecific thermolabile inhibitors, and has a much higher interferon-stimulating and interference activity and a much lower cytotoxic activity. After experimental inoculation of human subjects, both strains cause a rapid, fourfold increase in serun antibody concentration. However, the disease induced by the attenuated strain is considerably less severe and of shorter duration than that induced by the parent strain.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

UDC 547.558.1

USSR

FESHCHENKO, N. G., KOVALEVA, T. V., and KIRSANOV, A. V., Institute of Organic Chemistry, Academy of Sciences of the UkrSSR

"Iodides of Phosphorus. V. Chemical Properties of Aryldliodophosphines and Diaryldiiodobiphosphines"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(103), No 2, Feb 71, pp 287-290

Abstract: A study of the chemical properties of aryldimodophosphines and diaryldiodobiphosphines shows that both types of compounds react equally readily with electrophilic and nucleophilic agents. Diaryldkindobiphosphines react with sulfur either producing compounds of a new type -diaryldiiodobiphosphine disulfides -- or by breaking the P-P bond and forming dithiophosphonic acid anhydride, depending on the conditions under which the reaction is carried out. In boiling benzene, aryldiiodophosphines take up 2 gram-atoms of sulfur and eliminate a mole of iodine molecule. Aryltetraiodophosphorans appear to have the structure of aryltriiodophosphonium iodides. Diphenyldiiodobiphosphine reacts with piperidine with rupture of the P-P bond and formation of the dipiperidide of phenylphosphenous acid. When heated above 230°C, diaryldiiodophosphines decompose with the formation of aryldiiodophosphine and an arylphosphorus polymer. 1/1 _ 32 -

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

UDC 546.183

FESHCHENKO, N. G., GORBATENKO, Zh. T., KOVALEVA, T. V., and KIRSANOV, A. V., Institute of Organic Chemistry, Academy of Sciences of the UkrSSR

"Iodides of Phosphorus. IV. Reaction of Phosphorus Triiodide With Organic Sulfides and Tertiary Amines"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(103), No 2, Feb 72, pp 284-287

Abstract: An investigation of the reaction between phosphorus trifodide, organic sulfides and tertiary amines shows that equilibrium conversion of the triiodide to the diiodide takes place when phosphorus triiodide is treated with dialkyl sulfides or thiophane. Because of their low basicity, dibenzyl sulfide and diphenyl sulfide do not convert the trilodide to the diiodide. When phosphorus triiodide reacts with tertiary amines, polymers with a low iodine content are formed. Treatment of the triindide with pyridine produces the diiodide and a complex comprised of two molecules of pyridine and one molecule of phosphorus triiodide. Aryldiiodophosphines react with triethylamine in a 1:1 ratio to form an almost quantitative yield of diaryldiiodobiphosphines. Cyclic polyarylcyclopolyphosphines are produced by the reaction of aryldiiodophosphines and diaryldiiodobiphosphines with excess triethylamine. 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R002201520015-3

UNICLASSIFIED

PROCESSING DATE--020CT70

TITLE--DIALKYLAMIDOTETRATODOPHOSPHORANES -U-

AUTHOR-(C3)-FESHCHENKT, N.G., KOVALEVA, T.V., KIRSANCV, A.Y.

COUNTRY OF INFO--USSR

SOURCE--AH. DESHCH. KHIM. 1970, 40121 500

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--100INATED ORGANIC COMPDUND, ORGANIC PHOSPHORUS COMPDUND, LITHIUM COMPOUND, ORGANIC NITROGEN COMPOUND

CONTROL MARKING--NO RESTRICTIONS

DUCUMENT CLASS--UNCLASSIFIED PROXY REFL/FRAME--1992/1571

STEP NO---UR/0079/10/046/002/0500/0500

CINC ACCESSION NO--APOLL2565

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

PROCESSING DATE--020CT70 UNCLASSIFIED ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. REACTION OF LII WITH R SUB2 RPCL SUBZ GAVE NUT THE EXPECTED R SUBZ NPI SUBZ. BUT PREVIOUSLY UNKNOWN P SUB2 NPI SUB4 (R EQUALS ME, M. 121-20EGREES; R EDWALS ET, M. 104-5UEGREES) ALONG WITH (R SUB2 NPT) SUB2 GLICL, WHICH WERE YELLOW SOLIDS. M. LARGER THAN 250DEGREES, SOL. ONLY IN H 5082 D. AND SLOHLY DECOMPD. IN MOIST AIR. IN C SUB6 H SUB6 THESE ADDED 1 OR 3 MOLES TODINE TO FORM EITHER UP TO POPERCENT IR SUB2 NPT SUB21 SUB2 .3. TCL OR 67PERCENT (R SUB2 NPI SUB4) SUB2 .BLICL, WHICH ARE BROWN SOLIDS, M. LARGER THAN 250DEGREES. AND DECUMPD. AND DISSOLVED IN H SJ82 D. EVIDENTLY THE ORIGINAL REACTION OF 3R SUB2 NPCL SUB2 WITH 6 LIT YIELDS 6 LICE AND 3R. SUB2 N-PI SUB2. WHICH DISPROPORTIONATE INTO THE 2 PRODUCT TYPES SHOWN OWING TO INCREASING NUCLEOPHILICITY OF P CAUSED BY THE R SUB2 N GROUP. R SUB2 NPT SUB4 ARE ORANGE SOLIDS, SOL. IN CCL SUB4 AND C SUB6 H SUB6 ARE EASILY HYDROLYZED IN MOIST ATR; THEY CAN BE TITRATED. CONSUMING 5 EQUIVS. OF BASE.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

546.185 UDC:

USSR

FESHCHENKO, N. G., KOVALEVA, T. V., and KIRSANOV, A. V., Institute of Organic Chemistry, Kiev, Academy of Sciences Ukrainian SSR

"Dialkyl Amidotetraiodophosphorus Compounds"

Leningrad, Zhurnal Obshchey Khimii, Vol 40, No 2, Feb 70, p 500

Abstract: Lithium iodide reacts with dialkylamidodichlorophoshines to give previously unknown dialkyl amidatetraiodophosphorus compounds and lithium chloride-tetraalkyldiamidodiiodobiphosphina complexes.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3" unc 616.988.25-022.395.42.036.2(571.62)

VERETA, L. A., OBUKHOV, G. D., KOVATEVA, Ye. I., SKVORTSKVA, T. M., and MOGILEV, V. Ye. VOROB'YEVA, R. N., NIKOLAYEVA, B. P., KUMAKOVA, T. M., and ROSLYAKOV, G. Ye., Khabarovsk Scientific Research Institute of Epidemiology and Microbiology, Khabarovsk

"Landscape-Epidemiological Subdivision of the Armr Territory With Respect to Tick-Borne Encephalitis

Moscow, Meditsinskaya Parazitologiya i Parazitarnyye Bolezni, Vol 42, No 1, Jan/Feb 73, pp 28-32

Abstract: An evaluation of the danger of human infection with tick-forms encephalitis in territorial subdivisions of the Amur region differing with respect to natural characteristics has been carried out on the basis of a number of factors, principally the local density of Ixodid ticks. The index of probability of infection (a product of the ratio of persons who have visited forests by the ratio of those who observed the attachment of ticks by the ratio of ticks infected with the virus of the disease) based on data collected in 1969-71 was used as a criterion. Regions with a high incidence of the disease were located in the zone of coniferous-wide-leaved forgets, those with a moderate incidence in the subzone of the southern taygn and in agriculturally developed areas in the zone of coniferous-wide-leaved forests, and those with 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

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VERETA, L. A., et al., Meditsinskaya Parazitologiya i Parazitarmyve Bolezni, Vol 42, No 1, Jan/Feb 73, pp 28-32

a low incidence in the subzone of the middle tayga. Acuta forms of the disease occurred both in regions with a high and a low incidence. The ratio of fical (meningoencephalitic) forms and the index of lethality, which corresponded to this ratio, showed some tendency of increasing from the south to the north.

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UIX 543.4:632.951

KOVALEVA, YE. S., and TALANOV, G. A., All Union Scientific Research Institute of Veterinary Sanitation

"Dynamics of the Residues of Diazinon, Metaphos, and Trichlorometaphos-3 in Feed Cultures"

Moscow, Khimiya v Sel'skom Khozyaistve, No 4, 1973, pp 34-37

Abstract: Treatment of clover, alfalfa, timothy grass, sugar beets, potatoes, corn, vetch, and oats with aqueous emulsions of diazinon, metaphos and TChM-3 (1.2 kg/hectare) showed that the least persistent residue was that of diazinon, metaphos residues being retained for longer periods, and TChM-3 being the most persistent agent. Ten days after the application, the level of diazinon was 0.4 mg/kg, metaphos - 2.2, and TChM-3 -- 12.5 mg/kg. Using gas chromatography, 40 days after the application 0.006-0.094 mg/kg levels of diazinon could be detected in all cultures; metaphos level 50 days after application was 0.01-0.014 mg/kg and TChM-3 levels after 60 days were 0.05-0.6 mg/kg. Diazinon residues were found in potato tubers and in sugar beet roots. Metaphos residues in the sugar beet roots were at the level of 0.01-0.174 mg/kg; they could not

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KOVALEVA, YE. S., and TALANOV, G. A., Khimiya v Sel'skom Khozyaistve, No 4, 1973, pp 34-37

be detected in the pulp of the beet and potato tubers. TChM-3 content in potato was from 0.006 to 0.16 mg/kg, in the skin of sugar beet root from 0.09 to 0.48 mg/kg, and in the tubers from 0.004 to 0.014 mg/kg. On the basis of these data a waiting period has been proposed of 10 days for diazinon, 40 days for TChM-3 and 60 days for metaphos between the last application and the harvesting time.

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1/2 009 UNCLASSIFIED PROCESSING DATE--18SE070
TITLE--THE EFFECT OF TEMPERATURE OF FERMENTATION ON THE PRODUCTION OF
HIGHER ALCOHOLS BY THE YEAST SACCHAROMYCES CARLSBERGENSIS -UAUTHOR-(04)-GRACHEVA, I.M., VESELOV, I.YA., GAVRILOVA, N.N., KOVALEVICH,
ELS.

COUNTRY OF INFO--USSR

SOURCE--MIKROBIOLOGIYA, 1970, VOL 39, NR 2, PP 322-326

DATE PUBLISHED ---- 70

SHEET SHEET

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--FERMENTATION, ALCOHOL, YEAST, SACCHAROMYCES, CARBOHYDRATE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1983/1408

STEP NO--UR/0220/70/039/002/0322/0326

CIRC ACCESSION NO--AP0054271

PROCESSING DATE--18SEP70 UNCLASSIFIED 2/2 009 CIRC ACCESSION NO--APO054271 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. TEMPERATURE WAS FOUND TO BE AN IMPORTANT FACTOR IN THE PRODUCTION OF BY PRODUCTS BY SACCH. CARLSBERGENSIS XI DURING FERMENTATION, E.G. DN ACCUMULATION OF HIGHER ALCOHOLS, THE DEGREE OF CARECHYDRATE FERMENTATION TO ETHANOL BEING ALMOST THE SAME. THE TOTAL CONCENTRATION OF HIGHER ALCOHOLS RISED 1.95 FOLD WHEN TEMPERATURE OF FERMENTATION WAS INCREASED FROM 20EGREES TO 20DEGREES. THE FOLLOWING INCREASE OF TEMPERATURE UP TO 30DEGREES RESULTED IN A DECREASE OF HIGHER ALCOHOLS 3.6 FOLD. MATHLY AT THE ACCOUNT OF ISDAMYL ALCOHOL. THE ACCUMULATION OF ISOBUTYL AND N-PROPYL ALCOHOLS WAS NOT MUCH AFFECTED BY TEMPERATURE. THEIR MAXIMAL CONCENTRATION WAS REGISTERED AT 23 TO 25DEGREES.

UNCERSIFIED

UDC: 532

KOVALEVS'KA, Ye. L.

"Concerning Application of the Method of Pseudopotentials to Calculation of the Resistivity of Molten Metals"

Visnyk L'viv. un-tu. Ser. fiz. (L'vov University Herald. Physics Series), 1971, vyp. 6(14), pp 53-56, 109 (from RZh-Fizika, No 6, Jun 72, Abstract No 6Ye155)

Translation: The method of pseudopotentials is applied to calculation of the resistivity of molten metals. Theoretical and experimental results are compared. Formulas are presented for calculating the resistivity of molten metals. The interference function a(k) is determined from x-ray experiments. Theoretical and experimental data agree satisfactorily for the metals studied. Author's abstract.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

UDC 615.981.49-92.9-092-02:612.014.426

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USSR

KATOLA, V. M., and KOVALEVSKAYA A. N., Blagoveshchenskiy Medical Institute

"Dynamics of an Experimental Breslau Infection in Albino Mice Under the Influence of a Constant Magnetic Field"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunohiologii, Vol 10, Oct 1970, p 142

Translation: It has been reported that exposure to a variable magnetic field reduces the natural resistance of albino mice to Listuria. To determine the effects of a constant magnetic field on the course of the infectious process, we performed experiments on albino mice weighing 19-22 grams. The animals were divided into two experimental groups and one control group. The experimental mice were kept in a magnetic field produced by a parmanent magnet with poles of 2,500 oe. The control animals were kept under the same conditions but outside the magnetic field. Mice of the first experimental series were enterally infected with a culture of Breslau salmonella and were immediately placed in the magnetic field. In the second experimental series, the animals were first kept in the magnetic field for 10 days and then infected. Control mice were infected at the same time. Each day,

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KATOLA, V. M., and KOVALEVSKAYA, A. N., Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, Vol 10, Oct 1970, p 142

experimental and control animals were killed, and an Endo medium was inoculated with 0.1 ml of emulsions of mesenteric lymph nodes, spleen, liver, lungs, kidneys, and the content of the gastrointestinal tract. The isolated cultures were subjected to morphological, fermentative, and serological identification. A total of 360 mice were used in the investigation.

The first signs of disease appeared on the 4th day after infection in the control mice and 2 days later in the experimental mice. Parallel with this, the mesenteric lymph nodes were enlarged. Salmonella were obtained from the mesenteric nodes of the control mice 2 days after infection, while cultures prepared with the lymph nodes of the experimental animals yielded a growth on the 4th day. During that time, Salmonella were also obtained from other organs of the control group. The concentration of Salmonella per 100 mg of tissue in the experimental animals was 10 to 100 times less than in the control animals. On the 7th day after infection, no differences were observed in the infestation of the various organs. Blood cultures of the control mice displayed a growth on the 3rd day, and those of experimental mice on the 5th day after infection.

KATOLA, V. M., and KOVALEVSKAYA, A. N., Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, Vol 10, Oct 1970, p 142

Similar results were obtained in the second series of tests. The survival and death rates were identical in all groups of the experimental animals. The morphological, fermentative, and serological properties of Breslau Salmonella did not change.

Thus, exposure to a permanent magnetic field of 2,500 de blocked the infection in mesenteric lymph nodes, resulting in a longer incubation period and a smaller proliferation of the Salmonella in the organs of the mice.

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- 36 -

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

1/2 045 UNCLASSIFIED PROCESSING DATE-+27NOV/O
TITLE--INTERBAND RADIATIVE AND IMPACT RECOMBINATION IN UNDIAN PHOSPHIOE
-U-

AUTHOR-103)-KOVALEVSKAYA, G.G., NASLEDOV, D.N., SLOBODCHIKOV, S.V.

COUNTRY OF INFO--USSR

SOURCE--FIZ. TEKH. POLUPROV. 1970, 4(4), 780-3

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY, PHYSICS

TOPIC TAGS--REACTION MECHANISM, RADIATION EFFECT, THERMAL EFFECT, INDIUM COMPOUND, PHOSPHIDE, RADIATIVE RECOMBINATION

CONTROL MARKING--NO RESTRICTIONS

OCCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/1448

STEP NO--UR/0449//70/004/004/0780/0/83

CIRC ACCESSION NO--AP0139119

UHCLASSIFIED

2/2 045

UNCLASSIFIED

PROCESSING DATE--27NOV70

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CIRC ACCESSION NO--APO135119

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE LIFETIME OF RADIATIVE ARD IMPACT RECOMBINATION IN PURE OR DOPED INP WAS EVALUATED THEORETICALLY. THE RESP. LIFETIMES FOR PURE AND DOPED INP. TAU SUAN AND TAU SUBP FOR THE CASE OF RADIATIVE INTERBAND RECOMBINATION ATLUM EXCITATION LEVELS WERE PLOTTED VS. 1-TAU. THE MAX. LIFETIME OF PURE INPOISPLAYED AN ABRUPT, ALMOST EXPONENTIAL DECREASE AT ELEVATED TEMPS. DISPLAYED THE REVERSE BEHAVIOR. LIFETIME WAS SUNGHTRY AFFECTED BY TEMP., AND A NEGLIGIBLE DECREASE WAS CHECKED AT HOW TEMP., ATTRIBUTED TO CARRIER CONCN. ALTERATIONS. AT ELEVATED TEMPS., WHEN THE INTRINSIC CARRIER CONCN. TENDS TO N SUBO VALUES. (10 PRIMEID-10 PRIMEID PER CM PRIMES), LIFETIMES OF PURE AND DOPED INP BECOME BOUAL. CURVES WERE PLOTTED ALSO FOR THE TEMP. DEPENDENCE OF IMPACT RECOMBINATION LIFETIME OF PURE AND DOPED INP. THE TEMP. DEPENDENCE WAS MORE ABRUPT THAN EXPONENTIAL, DUE TO THE KNOWN EFFECT OF THE BROADENING OF THE FORBLODEN DOPING DECREASES LIFETIME SHARPLY. THE THEORETICALLY EVALUATED LIFETIME DATA IN BOTH CASES WERE COMPARED WITH PREVIOUSLY REPORTED EXPTL. FIGURES (KOVALEVSKAYA, 1968), IN AN EFFORT TO MALYZE THE INTERBAND RECOMBINATION MECHANISM OF INP. IN THE ABSENCE OF DEFECTS. IN PURE INP CRYSTALS RADIATIVE RECOMBINATION FOLLOWS PREDOMINANTLY A RECOMBINATION AND ATTACHMENT MECHANISM AT ROOM TEMP. AND SLIGHTLY ABOVE. VACILITY: FIZ.-TEKH. INST. IM. LOFFE, LENINGRAD, USSA.

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

KOVALEVSKAYA, D. The contents of the publication have been translated as presented in the original text, No attempt has been made to verify the accuracy of any statement contained herein. This translation is published with a minimum of copy editing and graphics prepatation in order to expedite the dissemination of information. Requests for additional copies of that document should be addressed to Department A. National Technical Information Service, Springfield, Yuginia 22151. Approved for public release; dietribution unlimited Translated for fate by oxest SOUNCE WHIN'S EMCTIER LILLET POREIGN TITLE: TEPLO - 1 Massobmen v Men'yukomovskikh Zhidkostyskh, "EnstEis", Movcov 1968 TECHNICAL TRANSLATION Berkovskii, Z. P. Shul'aan, M. D. Kovelevskaya Odne Zedacha Teploobmena Wefur'Evekikh Anomal'No-Vyazkikh Zhidkostey A Problem of Heat Transfer of Kon-Fourier Anormalously Viscous Liguids NOTICE 75TC-NT-23- 204-72

Hydrobiology

USSR

und 59(093.32)

KOVALEVSKAYA, M. V., SEKKER, V. E., and PASTERNAK, F. A., Institute of Oceanology, Academy of Sciences USSR, Moscow

"Biological Studies During the First Voyage of the Sciennific Research Ship 'Dmitriy Mendeleyev' in the Western Tropical Atlantic"

Moscow, Zoologicheskiy Zhurnal, Vol 49, No 3, 1970, pp 418-479

Translation: The new scientific research ship of the Institute of Oceanology, Academy of Sciences USSR, "Dmitrly Mendeleyev" left on 21 February (969 on her first voyage from the port Kaliningrad. The trip lasted 61 days, during which 70 stations were visited covering about 14,900 mantical alles, with one stop at Montserrat and two entries into the ports -- Port-of-Spalm (Tribuidad) and Gibraltar. The main goal of the voyage was to take instrument readings of the eastward current from the ridge of the Lesser Antilles. Concurrently, biological experiments were carried out, including collection of benthic fauna, fish, and ichthyoplankton, as well as several attempts at artificial fertilization of fish roe and incubation in an aquarium. These studies were conducted by the authors of this paper at 60 stations of the trip.

Fish collection produced about 100 different species belonging to be general.

KOVALEVSKAYA, N. V., et al, Zoologicheskiy Zhurnal, Vol 49, No 3, 1970, pp 478-479

and 46 families, and in addition a considerable quantity of fish ova and larvae (determination of quantity was impossible during the voyage). The collection yielded 28 shore types and 68 ocean ones (43 bathy- and masopelagic and 25 epipelagic). The most diverse are the mesopelagic family Myctophidae (8 general and 18 species) and those from epipelagic Exocoetidae (6 general and 11 species). The remaining 44 families were represented by 1-2, or occasionally by 3 species. Quantitatively, the most numerous was the collection of flying fish (Exocoetidae).

The collection of deep sea fish was quite diverse, but most types were represented only by single examples. The only exception were several types of Myctophidae which came to the surface at night and could be relatively easily caught by surface catching equipment. For example, when the ship was stationed at Montserrat Island, about 200 examples of Diaphus dumerili and D. garmani were caught with dip nets. It is also interesting that real mesopelagic types, which reside during the day at depths of 300-500 m, could be found in large quantities at night at a depth of about 20 m. Finally, it should be noted that these types were caught at one station only in the immediate proximity of the island. All

KOVALEVSKAYA, N. V., et al, Zoologicheskiy Zhurnal, Vol 49, No 3, 1970, pp 478-479

other Myctophidae found at night on the surface were discovered at considerable depths (1000 m and more). These include the only example of Myctophum selenops, a species known by only a few examples.

From the zoogeographic point of view, an interesting catch was made at S² north lattitude and 53°16' west longitude -- one example of Electrona rissol (Myetophidae), which is well-known in the eastern Atlantic but not found in the past west of 40° west longitude. Catches of several rare and poorly studied types were also interesting (Heterophotus ophistoma [Astronesthidae], Lepidophanes supralateralis [Myctophidae] and some others).

Most numerous were catches of epipelagic fifsh, made at night with electrical illumination, using dip nets and a Savilov pleustonic trawl net; Oxyporhamphidae and Exocoetidae comprised this group. Most numerous forms in these groups were 0xyporhamphus micropterus, Parexocoetus brachypterus, Ekacoetus volitans. Prognichthys gibbifrons, Hirundichthys affinis and H. speculiger. These types, nichthys gibbifrons, Hirundichthys affinis and H. speculiger. These types, except for P. brachypterus, were found at almost all stations, while the latter was found up to the 300 mile limit from the shores.

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KOVALEVSKAYA, N. V., et al, Zoologicheskiy Zhurnal, Vol 49, No 3, 1970, pp 478-479

Roe and larvae of Oxyporhamphus micropterus and O. meristocystis (the latter only near the Tobago and Barbados Islands) were found in the inhthyoplankton catch. Up to now it was believed that the first -- the aceanic type -- was widely scattered in tropical areas of all three oceans, and the second -- the negatic -- only in Pacific and Indian oceans. The roe and larvae of 0. mlcropterus were caught both near the shore and far away from them, but the largest eatch was made at a station northeast of the Guiana shores. In the same region, intensive spawning of one of the most numerous types of glying fish, Exococtus volitans, took place (up to 880 larvae in one 20 min catch with the pleustonic trawl net). In March, 1969, northeast of the Lesser Antilles, these two types did not spawn, and the offspring observed there were most probably carried over by the Guiana and Antilles streams. Spawning of other flying fish was also observed in this region. Northeast of Desirad Island, developing recoi Cheilopogon furcatus was found, and at Montserrat Island, running males and females of Ch. luckeni were caught. 4/8

USSR

KOVALEVSKAYA, N. V., et al, Zoologicheskiy Zhurnal, Vol 49, No 3, 1970, pp 478-479

In recent years (mainly due to the efforts of Soviet expeditions) a systematic quantitative study was carried out of the benthic fauna of the Pacific, Indian and Southern oceans. Charts of quantitative discribution (quite detailed for many regions) were prepared, and some interesting principles were determined for the distribution of benthic fauna in these areas. As paradoxical as it seems, no such studies were carried out in the Atlantic ocean. Currently only isolated data exist on the quantitative distribution of benthos around the shores of Central and South Africa, along the meridian cross soution from the shores of Greenland to the equatorial zone, and along the cross section from North America to Bermuda. Therefore, even these unpretentious results, obtained during the first voyage of the scientific research ship "Dmitriy Mendeleyev" are quite interesting.

The poorest development of benthic fauna on the meridian cross section mentioned above is found in the southern part of the tropical zone, where it is represented by a single foraminifera. Extreme paucity of benthos was also observed in the northern zone. There the benthos biomass reached only $0.002\text{-}0.005~\text{g/m}^2$. At the same latitude but somewhat closer to the Antilkes ridge islands, at a depth 5/8

KOVALEVSKAYA, N. V., et al, Zoologicheskiy Zhurnal, Vol 49, No 3, 1970, pp 478-479

of 4600 m we found a considerable increase of the benthos biomass, up to 0.03 g/m^2 , mainly due to vitreous sponges and polychaeta, Aricidae and Moldanidae. Evidently this is due to a slight upwelling in the region of that station.

Several quantitative samples of benthos were collected at the cross section clong the ridge of the Antilles Islands. There, at a depth of 1500-2000 m, its biomass was 0.3-1.9 g/m^2 . These indicators, considering the depths and locations of the stations along the north portion of the tropical zone, are considered to be quite high. Even more interesting and actually sometimat interpedited results were obtained along the cross section of the upper and lower parts of the South American continental incline and its foothill zone south of the Orinoco delta. Here a very diversified and rich benthic fauna was found at four stations. At 400 m, the biomass of bivalve mollusks, polychaeta, nematoda and crustaceans reached 34.24 g/m^2 . Lower down the incline, at a depth of 800 m, the benthic fauna becomes poorer, but even here the polychaeta, crustaceans and bivalve mollusks gave a biomass of 25.52 g/m^2 . Even in the middle pertion of the incline, at a depth of 1200 m, a dense population of the brittle stars of the 6/8

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KOVALEVSKAYA, N. V., et al, Zoologicheskiy Zhurnal, Vol 49, No 3, 1970, pp 478-479

Amphiura types were found, which together with the polyphaeta, isopeda crabs and bivalve mollusks gave a biomass of 18.24 g/m². At the same station, several examples of pogonofora were found. These are noteworthy data. Expeditions in past years determined the high productivity of the benthos fauna of the continental incline of the Pacific and Atlantic oceans at noderate latitudes. The fact that benthos values for the bathyal zone of the tropical belt obtained by us are fully comparable with those of the continental incline of moderate latitudes, is a very unique phenomenon requiring intensive studies. In the region studied, a distinct stratification of waters is to be expected, as well as a possible deep layer of oxygen minimum. This circumstance, together with the strong shore run-off carrying considerable organic and mineral material, should favor accumulation and rapid preservation of unoxidized organic material in the bottom. Even at the deepest station (4650 m), remote from the shore, terrigencus residues were found, inhabited by relatively rich fauna of polychaeta, cenotera, and sea lilies, with a total biomass of 0.19 grams per square neter.

The study of the benthos of deep sea channels began comparatively recently, but a lot was already accomplished. Ultranbyssal invertebrates were found in almost 7/8

USSR

KOVALEVSKAYA, N. V., et al, Zoologicheskiy Zhurnal, Vol 49, No 3, 1970, pp 478-479

all channels of the Pacific Ocean. In this respect the Atlantic Ocean was studied much less than the Pacific Ocean. Before our study in the Puerto Rico cannel, one trawling was carried out at a depth of 7000 m, and two at a depth of 6000 m, but to this date the results of these studies have not been published. Therefore, from the trawling test-runs of this voyage, the most valuable is the trawling in the western part of the Puerto Rico channel, at a depth of 6300 m. The trawling yielded more than 25 types of various benthes invertebrates — polychaeta, bivalve mollusks, and holothurioidea (a total of about 80 examples). The almost total absence of isopoda grabs was notewortny, even though it is a usual component of ultraabyssal communities. Undoubtedly the results of this trawling will turn into a special intensive study.

During our stay at Port-of-Spain, we visited the West Indies University and Fishing Station, and learned about their activities. An exchange of collection and demonstration materials took place.

8/8

Pharmacology and Toxicology

USSR

ALIMOV, R. A., SHUKUROV, A., KOVALEVSKAYA R. And CHHENYSHEV, V. K., Tashkent Scientific Research Institute of Roentgenology, Radiology, and Oncology, Uzbek SSR Ministry of Health

"A Study of the Effects of the NK-5 Compound on the Biological Activity of Thio-TKPA"

Tashkent, Meditsinskiy Zhurnal Uzbekistana, No 7, Jul 71, pp 17-19

Abstract: Since most antitumor drugs cause serious injury to the hematopoietic system, an investigation was performed to establish whether the NK-5 compound, administered in conjunction with the antitumor drug Thio-TEPA to young rats with sarcoma-45 transplant, would suppress the untoward effects of Thio-TEPA. Peripheral blood sample analyses performed throughout the test (one month) revealed that the NK-5 compound prevented a drop in leukocyte concentration and increased hemoglobin and erythrocyte concentration. More-ever, these rats were growing significantly faster than the controls. Post-experimental histological examinations revealed small necrotic areas in the sarcoma transplants in rats treated with Thio-TEPA alone. In animals treated with Thio-TEPA and NK-5, the timors had large necrotic areas in their central

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ALIMOV, R. A., et al., Meditsinskiy Zhurnal Uzbekistuna, No 7, Jul 71, pp 17-19

portions and dystrophic tumor cells in their peripheral portions. It is concluded that the NK-5 compound not only inhibits the undesirable side effects of Thio-TEPA, but also magnifies the antitumor effect of the latter.

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UDO 559.216.2

USSR

KOVALEVSKAYA, T.I., NESTEROVA, S.N., RZHANOV, A.V., SVITASHEV, K.K.

"Study by The Method Of Infrared Spectroscopy Of Bultiple Distorted Internal Reflection Of The Structure Of The Transition Layer In The System Germanium-Silicon-Dioxide Film"

Fiz. i tekhn. poluprovodnikov (Physics And Technology Cf Semiconductors), 1971, 5, No 9, pp 1720-1724 (from RZh: Elektronika i yeye primeneniye, No 1, Jan 72, Abstract No 18157)

Translation: The structure of an extremely thin transition layer in the system germonium-SiO2 film is studied by the method of infrared spectroscopy of multiple distorted total internal reflection. A precise computation is made of the reflection factor in the region of the absorption bund of the valence vibrations of the Si-O bonds. The computed and experimental spectra are compared. It is established that the structure of the transition layer is similar to the structure of germanium -- silicate glass. Summary.

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CIA-RDP86-00513R002201520015-3" APPROVED FOR RELEASE: 08/09/2001

1/2 017 UNCLASSIFIED

PROCESSING DATE--230CT70

TITLE--FAST SURFACE STATES IN SILANIZED GERMANIUM -U-

AUTHOR-(02)-RZHANOV, A.V., KOVALEVSKAYA, T.I.

COUNTRY OF INFO--USSR

SOURCE--FIZ. TEKH. POLUPROV. 1970, 4(2), 321-4

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY, MATERIALS

TOPIC TAGS--GERMANIUM, SILANE, SURFACE AREA, CHLOREDE, GAS ABSORPTION.
METAL ETCHING

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/1476

STEP NO+-UR/0449/70/004/002/0321/0324

CIRC ACCESSION NO--APOLZO263

THEFT ISSUED THAT

PROCESSING DATE--230CT70 UNCLASSIFIED 2/2 017 CIRC ACCESSION NO--APO120263 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. SINGLE CRYSTAL (1111) ORIENTED N-GE SAMPLES WERE ETCHED AND THEN TREATED WITH A DIOKANE SOUN. OF ME SUB2 SICL SUB2, WHEREBY A HYDROPHOBIC POLYSILOXANE FILM OF 100-500 ANGSTROM IS FORMED. THE IR SPECTRA OF TREATED SAMPLES REVEAL A NEW ABSURPTION PEAK AT 975 CM PRIME NEGATIVEL IN THE VICINITY OF THE SI-O BOND ABSORPTION PEAKS (1020 AND 1120 CM PRIME NEGATIVEL). THE NEW PEAK IS ASSIGNED TO THE GE-O-SI FORMS AND IS FORMED FROM BOND. SAMPLES WITH VARIOUS INTENSITIES OF THIS PEAK WERE STUDIED BY THE FIELD EFFECT METHOD COMBINED WITH STATIONARY PHOTOCONO. MEASUREMENTS. THE SURFACE POTENTIAL Y SUBSIGMA DEPENDENCE OF THE RECOMBINATION RATE S AND: OF THE CHARGE OF TRAPPED SURFACE PLOTTED. THE Q SUBSS Y SUBS PLOTS ARE EXPONENTIAL FUNCTIONS WITH SIMILAR EXPONENTIAL COEFF. BUT WITH SIGNIFICANTLY DIFFERENT PREEXPONENTIAL TERMS FOR THE SAMPLES OF VARIOUS INTENSITY TOTAL OF THE 975 CM PRIME NEGATIVE! PEAK. IT IS ASSUMED THAT THE PREEXPONENTIAL TERM IS PROPORTIONAL TO THE CONGN. OF SURFACE STATES N SUBSIGNASIGNA. THE N SUBSIGNASIGNA TOTA PLUT IS LINEAR AND JUSTIFIES THIS ASSUMPTION. SILANE TREATMENT OF GE SURFACES INVOLVES A SUBSTITUTION OF PART OF THE UNSTABLE O, CH. AND H SUBP O BONDS WITH THE MORE STABLE GE-O-SI BUND. THE TREATMENT IS ESP. EFFECTIVE WHEN CARRIED FACILITY: INST. FIZ. POLUPROY., OUT IMMEDIATELY AFTER ETCHING. NOVOSIBIRSK, USSR.

1/2 016 UNCLASSIFIED

PROCESSING DATE--- 300CT70

TITLE-N. CHLOROPHOSPHAHIDES -U-

AUTHOR-(03)-MARKOVSKIY, L.N., PINCHUK, A.M., KOVALEVSKAYA, T.V.

CCUNTRY OF INFO-USSR

SOURCE-ZH. OBSHCH. KHIM. 1970, 40(3), 543-5

DATE PUBLISHED 70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS-CHLORINATED ORGANIC COMPOUND, ORGANIC SYNTHESIS, ORGANIC PHOSPHORUS COMPOUND, AMIDE, CHEMICAL STABILITY

CCNTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME-2000/0876

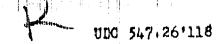
STEP NO--UR/0079/70/040/003/0543/0545

CIRC ACCESSION NO--APO124539

UNCLASSIFIED

2/2 016 UNCLASSIFIED PROCESSING DATE--300CT70
CIRC ACCESSION NO--AP0124539
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. CHLORINATION OF ISHUWN ON
MICROFICHE). THE N-ME MEMBERS COULD BE STORED INDEFILITELY AT
20DEGREES; N-BU MEMBERS DECOMPN. IN PART DURING DISTN. AND DECOMPD. TO A
CONSIDERABLE EXTENT WITHIN 5-6 DAYS. FACILITY: INST. ORG. KHIM.
KIEV, USSR.

USSR



MARKOVSKIY, L. N., PINCHUK, A. M., and KOVALEVSKAYA, T. V., Institute of Organic Chemistry, Academy of Sciences Ukrainian SSR

"Addition of N, N-Dichlorophosphamides to Styrene"

Leningrad, Zhurnal Obshchey Khimii, Vol 40, No 5, May 70, pp 1011-1014

Abstract: N, N-Dichloramides of dialkylphosphoric acids readily add to styrene contrary to Markovnikov's rule to form N-chloro-N-2-chloro-phenylethylamides of dialkylphosphoric acids (I). Reduction of the latter with an aqueous solution of sodium bisulfate or gaseous hydrogen chloride at 2-50 gives N-2-chloro-2-phenylethylamides of dialkyl-phosphoric acids. The latter and I split on the N-P bond under the action of gaseous hydrogen chloride at 50-600 to give 2-chloro-2-phenylethylamine chloride. N-2-Chloro-2-phenylethylamides of dialkyl-phosphoric acids react with an alcoholic solution of alkali to give 1-dialkoxyphosphonyl-2-phenylethylenimines. The latter react with hydrogen chloride or chlorine to open the ethylenimine ring on the nitrogen-secondary carbon atom bond. The authors thank A. V. KIRSANOV for his advice and assistance.

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1/2 018 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--TEMPERATURE FUNCTION OF THE SPECIFIC HEAT AND ELECTRIC RESISTANCE

OF DYSPROSIUM NEAR THE NEEL POINT -U-AUTHOR-(04)-AMITIN, YE.B., KOVALEVSKAYA, YU.A., RAKHMENKULOV, F.S.,

- PAUKOV, I.YE.

COUNTRY OF INFO--USSR

SOURCE-FIZ. TVERD. TELA 1970, 1213), 774-80

DATE PUBLISHED ---- 70

SUBJECT AREAS--PHYSICS

TUPIC TAGS-RESISTIVITY, SPECIFIC HEAT, DYSPROSIUM, TEMPERATURE DEPENDENCE, NEEL TEMPERATURE

CENTREL MARKING-NO RESTRICTIONS

PROXY REEL/FRAME--1987/1968

STEP ND--UR/0181/70/012/003/0774/0780

CIRC ACCESSION NG--APO105042

UNCLASS 1 F 1 6 0

CIRC ACCESSION NU--APO105042

ABSTRACT/EXTRACI--(U) GP-0- ABSTRACT. MEASUREMENTS WERE CARRIED OUT OF SP. HEAT AND ELECT. RESISTANCE OF DY CLOSE TO THE NEEL POINT. CONSIDERABLE DEVIATIONS EXIST FROM THE EXPECTED PROPORTIONALITY BETWEEN THE MAGNETIC PART OF SP. HEAT AND THE DERIV. OF ELECT RESISTANCE WITH TEMP. THE TEMPS. CORRESPONDING TO THE EXTREMES OF THE STUDIED PROPERTIES DO NOT COINCIDE. AN ATTEMPT WAS MADE TO DET. THE FORM OF THE FUNCTION WHICH DESCRIBED THE PECULIARITY OF SP. HEAT, WITHOUT THE CHOICE OF THE NEEL POINT. FACILITY: INST. NEORG, KHIM., NOVOSIBIRSK, USSR.

UNCLASSIFIED

1/2 026 UNCLASSIFIED PROCESSING DATE--20NOV70
TITLE--CERABIC ARTICLE OF INTRICATE DESIGN +U-

matches and the transfer on the state of the

AUTHOR-103)-KAGANCV, I.R., KCVALEVSKAYA, Z.V., YELIRAROV, N.I.

CCUNTRY OF INFO--USSR

SOURCE--U.S.S.R. 267,433

REFERENCE--CIRRYTIYA, 12068ET., PROM. OBRAZTSY, TOVMRNYE ZNAKI 1970,
DATE PUBLISHED----70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--CHEMICAL PATENT, GRAPHITE, SILICON CARRIDE, CERAMIC TECHNOLOGY, CERAMIC ENGINEERING

CENTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3004/1778

STEP ND--UR/0482/70/000/000/000/0000/0000

<u>र कोन्य । तम् । यो स्थाप क्रिया अपिता क्रिया अपिता विशेष स्थाप क्रिया अपिता व्यवस्था । व्यवस्था स्थाप क्रिया स</u>

CIRC ACCESSION NO--AACID2044

2/2 UNCLASSIFIED PAUCESSING DATE--20NOV/O CIRC ACCESSION NO--AA0132044 ABSTRACT/EXTRACT--(U) G2-0- ABSTRACT. CERAMIC PRODUCTS OF CHAPLEX CONFIGURATION WERE PRODUCED FROM COMPONENTS OF SILICIONACO GRAPHITE BY CEMENTING THEM WITH A MIXT. OF SIC AND WATER GLASS IN A 1:1 RATIO. INSURE THE STABILITY OF THE PRODUCTS DURING PROLUMBED CONTACT WITH NUNFERROUS METAL MELTS. THE CEMENTED PRODUCTS WERE COVERED WITH A COATING CENTS. FE FREE ARSIO SUBA AND AN ADDITIVE DE 0.5-10PERCENT H SUB3 30 SUB3 AND WERE FIRED AT GREATER THAN BOODEGREES. FACILITY: SCIENTIFIC RESEARCH DESIGN CONSTRUCTION INSTITUTE OF MACHINE BUILDING TECHNOLOGY.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3" USSR VDC: 550.84:553.495

KOVALEVSKIY ... A. L.

"Biogeochemical Search for Uranium Deposits"

Moscow, Atomnaya nergiya, vol 33, No 1, July 1972, pp 557-562

Abstract: This paper is a theoretical, qualitative study of the bases of the biogeochemical method for locating uranium deposits by examining plants which have absorbed indicator elements of the deposits. A discussion is given of the laws of the accumulation of such element indicators by plants, under which the low efficiency of uranophytometry is explained by the presence of physiological barriers in the plants to increases in urasium concentrations in the soil although there are no analogous barriers to radium. A table is given of groupings of chemical elements according to their limiting concentration in plants, and there is a second table for the basic biogeochemical characteristics of the indicator elements. A method of testing the plants is recommended, and the conditions to be observed for most effective biogeochemical search methods are outlined. Steps for improving search methods which have been ineffectively used in practice are also recommended. 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

USSR

621,378,9:621,395.603 UDC

VAKULENKO, A. M., DIVIL'KOVSKIY, I. M., KOVALEVSKIY, D. V., SMIRKEV, N. V.

"The TO-2 Optical Telephone"

Moscow, Kvantovaya Elektronika, Sbernik Statey, No 4, "Sovetskeye Radio", 1971, pp 134-136

Abstract: The paper describes the TO-2 telephone system based on a gallium arsenide semiconductor laser of the injection type. The system has a line-of-sight range of about 5 km, which can be ingreased by separating the transmitting and receiving channels, thus eliminating the beam splitter used in the common-channel transceiver, which introduces a power loss of about 75 percent. The system is designed for simultaneous two-way communication. A working model of the TO-2 system was put on display in the "Physics" pavillion of the Exhibition of Achievements of the Rational Economy in 1970. The transmitting laser has a threshold current of 30-50 amps, and emits on a wavelength of the order of 0.9 micron. Power consumption is no more than 3.5 W at a supply voltage of 9 V. Two figures, bibliography of three titles.

1/1

CIA-RDP86-00513R002201520015-3"

APPROVED FOR RELEASE: 08/09/2001

Acc. Nr:

AP0036975

Ref. Code: UR 0016

PRIMARY SOURCE:

Zhurnal Mikrobiòlogii, Epidemiologii, i Immunobiologii, 1970, Nr 1, pp 39 -94

OF THE LYMPH NODES IN RESPONSE TO THE ANTIGENIC STIMULATION

Kovalevskiy, G. N.

BCG vaccine and human erythrocytes of 0-group were injected interperitoneally to make Wistar rats. The efficacy of immunication was checked by intracutantous PPD testing and by the study of the protein blood fractions and antibodies. Up to 20—25 lymph nodes were examined in each rat. Massive lymphagenic migration of lymphacytes, expressed in acule lymphocytosis of the nodular sinuses was seen already at the early periods. Nonregional nodes were first involved into the process. The source of sinus lymphocytosis are apparently lymphocytes of nonfollicular cortex, mobilization of which was accompanied by focal «devastation» of tissue with exposure of reticular stroms. Apparently, such loci are later repopulated with lymphocytes entering from the blood through the walls of postcapillary venules. Dynamics of sinus lymphocytosis and its interrelationship with the production of globulins and antibodies were studied.

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ucc 629.78:537.591

KOVALEVSKTY, I. V.

Izmereniye Magnitnykh Poley i Plazmy na Kosmicheskikh Apparatakh (Heasurement of Magnetic Fields and Plasma in Spacecraft), Moscow, 1973, 270 pp

Moscow, Referativnyy Zhurnal--Raketostroyeniye, No 5, May 73, Abstract No 5,41,123K

Abstract: The book presents a summary and interpretation of the results of direct measurements of the magnetic fields and plasma made in a spacecraft in interplanetary space, in the magnetic sphere of the earth, in the region of interaction of solar plasma fluxes with the geomagnetic field, as well as in the vicinity of the moon and Venus. Data published in 1967 are contained in the book. Data are presented for each spacecraft on launch, orbital parameters, instrumentation (magnetometric equipment, plasma probes), and the basic research results and their interpretation. The book has been organized for plasma physics specialist, specialists in the theory of electromagnetic wave propagation and space radio communications, space physicists and geophysicists. 203 figures, 20 tables, 508 bibliographic references.

1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

1/2 030 UNCLASSIFIED PROCESSING DATE -- IBNOV70
TITLE--TECHNICAL AND ECONOMIC COMPARISON OF ELECTROSEAG AND VACUUH ARC
REMELTING -U-

AUTHOR-(04)-SKLOKIN, N.F., BOYARSHINGV, V.A., KOVALEVSKIY, M.A., YULKOV, S.YE,

COUNTRY OF INFO--USSR

SOURCE-- METALLUNG, FEB. 1970, (2), 29-31

DATE PUBLISHED ---- 70

SUBJECT AREAS--BEHAVIORAL AND SOCIAL SCIENCES, MATERIALS, ECG., IND., CIVIL AND MARINE ENGR TOPIC TAGS--ELECTROSLAG MELTING, VACUUM MELTING, VAGRUM ARC, STEEL, ECONOMICS

CONTROL MARKING--NG RESTRICTIONS

ODCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/0929

STEP NO--UR/0130/70/000/002/0029/0031

CIRC ACCESSION NO--APO124590

UNUL 85516133

PROCESSING DATE--1340V70 UNCLASSIFIED 2/2 030 CIRC ACCESSION NO--APO124590 ABSTRACT. THE RIVAL MERITS OF THE ABSTRACT/EXTRACT--(U) GP-0-ELECTROSLAG AND VACUUM ARC REMELTING OF STEELS AND ALLBYS ARE DISCUSSED. CHIEFLY FROM AN ECONOMIC POINT OF VIEW. IN GENERAL IT HOULD APPEAR THAT VACUUM ARC REMELTING IS ABOUT 1.5 TIMES AS EXPENSIVE AS ELECTRUSTAG REMELTING, ALTHOUGH FURTHER OPTIMIZATION OF THE EQUIPMENT INVOLVED AT THE PRESENT TIME, VACUUM ARC SHOULD MARROW THE DIFFERENCE. REMELTING IS ONLY RECOMMENDED FOR SPECIAL CASES IN WHICH THE QUALITY OF THE RESULT OUTWEIGHS COST CONSIDERATIONS. UNCLASSIFIED

UNCLASSIFIED 020 1/2

PHOCESSING DATE-- LINUV70

TITLE-THEORY OF THE VOLUMETRIC DENSIFICATION OF GRAPHITE WITH PYROLYTIC

CARBON -U-

AUTHOR-(03)-KOVALEVSKIY, N.N., ROGAYLIN, M.I., EARBEROV, I.L.

COUNTRY OF INFO--USSR

SOURCE-KHIM. TVEKD. TOPL. 1970, (2), 141-8 (RUSS).

DATE PUBLISHED----70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--GRAPHITE, PYRULYTIC CARBON, SPECIFIC DEMISTRY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/1660

STEP NO--UR/0467/TO/000/002/0141/0148

CIRC ACCESSION NU--APO125282

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VOLUMETRIC DENSIFT DATA LEADS TO SUFFE DENSIFICATION OF CONTRACTERISTICS OF AND THE PROPERTIES	UNCLASSIFIED APO125282 J) GP-O- ABSTRACT. THE D ICATION OF GRAPHITE WITH P FICIENT ACCURACY IN CALCG. GRAPHITE MATERIALS AS A I F THE ORIGINAL MATERIAL DES REQUIRED IN THE DENSIFIED 5KOP., MOSCOW, USSR.	IFFUSION KINETIC YROLYTIC C WAS E THE COMOITIONS FUNCTION OF THE SIGNATED FOR DEN	XAMD. THE OF SIFICATION
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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

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UDX: 549, als

KOVALEYSXIY. N.N., ROGATYLIN, M.I., and FARBEROV, I.L., Institute of Eliceral Fuels

"On the Theory of the Volumetric Compaction of Graphite With Pyrolytic Carbon"

Moscow, Knimiya Tverdogo Topliva, No 2, 1970, pp 141-148

Abstract: The "volumetric" method of compacting artificial graphite with pyrolytic carbon offers significant advantages as regards the physical, thermal, and electrical properties of the product, but it has not been generally adopted owing to the lack of information on the immediate physical processes involved and on the properties of the resultant graphite. The authors summarize recent theoretical and experimental studies relating to the method.

2/2

USSR

UDC: 621.791.3

POZDEYEVA, N. V., CHIBIREVA, V. A., METELKIN, I. I., KOVALEVSKIY, R. Ye., PERSHINA, L. K., Moscow

"Soldering of Metallized High-Alumina Ceramics with Metals by Means of Copper-Germanium Solder"

Moscow, Fizika i Khimiya Obrabotki Materialov [The Physics and Chemistry of Materials Processing], No 6, Nov-Dec 73, pp 104-110.

Abstract: Data are presented from a study of the interaction of coppergermanium solder containing from 5 to 10 wt. % germanium with the molybdenummanganese metallization coating on a high-alumina ceramic, type 22khS, during the process of soldering with various structural metal alloys. In relationship to the metallization coating, the most active element in combination
with copper-germanium solder is nickel, which facilitates rupture of the
metallization layer, thus reducing the quality of joints produced. Recommendations are given for the selection of a protective coating for the
metallization layer as a function of the structural metal used. If the
ceramic is to be soldered to alloys containing nickel, the metallization
surface should be protected with a galvanit layer of copper.

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- 80 -

USSR

UDC 539.4

BELYAYEV, V. I., ZINKEVICH, V. I., KOVALEVSKIY, V. N., SKOKOV, F. I.

"Behavior of Certain Metal Materials Under Dynamic Tension"

V sb. Vysokoskorostn. deformatsiya (High-Speed Deformation -- Collection of Works), Moscow, "Nauka", 1971, pp 54-56 (from RZh-Mekhamika, No 3, Mar 72, Abstract No 3V1460)

Translation: Results of tests for strain of cylindrical samples of disserter 5 mm made of ADI and DI6 aluminum alloys, IKh18N9T stainless steel, CT4 titanium alloy, and 40Kh, 40KhNMA and 20KhNZA alloyed structural steels are presented. The strain tests were conducted in the velocity range from 10⁻⁴ to 650 m/sec. The velocity range in which the highest plasticity properties and also the velocity range with a zero value of the plasticity characteristics were determined. Authors abstract.

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Acc. Nr: AP0046550_

Haf. Cods: UR 0216

PRIMARY SOURCE: Izves

Izvestiya Akademii Nauk SSSR, Serdya Biologicheskaya, 1970, Nr 1, pp 72-76

V. V. KOVALSKIY S. V. LE TUNOVA, V. V JERMIKOV

ARTIFICIAL ALTERATION OF BAC. MEGATERIUM ADAPTATION TO NATURAL SELENIUM CONTENTS IN SOIL

1. V. Vernadski Institute of Geology and Analytical Chemistry

Cultivation of two Bac, megaterium strains (29 and 101) isolated from socis with low selenium contents (Moscow region) in media, with higher contentrations of this element (5 g) per 100 co) causes adaptation of this microarganisms to this econdentrations. The adaptation is revealed by a shift of growing cultures regarding higher selenium concentration in contrast to treatly isolated strains. On the object hand Bac, megaterium strains 9 and 20 which had been coolated from soils rich in solation (Tuxa SSR) contents were adapted to lower selenium concentrations in the medium.

In the instance of the Toya strain 8 no shift of the growth maximum relative to low selenium concentrations in the medium could be obtained. The latter organism remains resistant to a decrease of selenium in the medium.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

Epidemiology

USSR

TINC 59.626.981.455(470.311)

OLSUF'YEV, N. G., DOBROKHOTOV, E. P., EUNAYEVA, T. N., EDVALEMENTY, MU. V., and MESHCHERYAKOVA, I. S., Tularenia Laboratory and Laboratory of Medical Zoology, Division of Natural Focus Infections, Institute of Epidemiology and Microbiology, Academy of Medical Sciences USSR, Moscow

"Experience of Long-Term Study of a Matural Meadow-Field Edlamemia Focus in Southern Moscow Oblast"

Moscov, Zoologicheskiy Zhurnal, Vol 51, No 9, 1972, pp 1425-1429

Abstract: Records were kept of rodent and tick densities, human tularenia cutbreaks, and epizootics in Stupinskiy and part of Podol'skdy Rayon since 1938 (when the 1st human tularenia outbreak was recorded) until 1971. Human outbreaks followed periodic rodent density increases until 1952, after which time no cases were reported due to a vaccination program. The principal rodent (Microtus arvalis, Micromys minutus, Apodemus agrarius, Arvicola terrestria) and tick (Dermacentor pictus, Ixodes ricimus, rarely I. triangulicaps) densities fluctuated more or less synchronously over about h-year periods, but raximus densities decreased with time, particularly after 1963, pautably due to improvements in agricultural procedures and consequent reduction of rodent and tick

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OLSUF'YEV, N. G., et al., Zoologicheskiy Zhurnnl, Vol 51, No 9, 1972, pp 1425-1429

habitat. Epizoetics continued to be detected however during rederate redent density increases after 1967. Thus the tularemia focus continued to maintain itself despite agricultural innovations, though outbreaks were highly localized. It is suggested that tularemia agent can survive long perfects not only in ticks but also by means of direct transfer from diseased to healthy redents. Straw stacks left in fields during winter provide concentration areas for redents and thus help to maintain the focus.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

USSR

UDC 911.3:616.968.25(470.342)

PCHELKINA, A. A., KORENBERG, E. 1., ZEMSKAYA, A. A., SUMDIYOVA, A. G., and KOVALEVSKIY, Yu. V.

"A Study of the Virus-Carrying Properties of Ixodes persulcatus P. Sch. in Tickborne Encephalitis Foci of Forests in the Southern European Taiga"

V sb. Vtoroye Acarologicheskeve soveshchaniye. Ch. 2. Tegisy dokt. (Second Acarological Conference. Part 2. Theses of Reports -- collection of works) Kiev, "Nauk. dumka," 1970, pp 96-97 (from RZh-Meditsinilaen Geografiya, No 4, Apr 71, Abstract No 4.36.59)

[No abstract]

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

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UDG 911.3.616.981.455(571.12)

DUNAYEVA, T. N., DOBROKHOTOV, B. P., VORONTSOVA, T. A., BIRKAN, D. I., and KOVALEVSKIY, Yu. V.

"An Attempt to Define the Distribution of Tularemia in Northern Rayens of Tyumenskaya Oblast" $\,$

V sb. Probl. osobo opasn. infektsiy (Problems of Especially Dangarous Infections -- collection of works) Vyp. 5(15). Saratov, 1970, pp 173-181 (from RZh-Meditsinskaya Geografiya, No 4, Apr 71, Abstract No 4.36.97)

Translation: Zeological, parasitological, bacteriological, and epidemiological research conducted during 1967 field trips provide evidence about the wide distribution of tularemia in the northern rayons of Tyumenshaya Colast, all the way to shore areas of the mouth of the Ob River, the ficethills of the polar Urals, and the Pur River basin. According to the high percentage of natural isometry among the local population, one can judge the minimizant level of epidemiological activity of the todi. A discussion is presented of the reasons for the non-correlation of skin allergy test results with tularemia incidence, and the reaction of agglutination with blood serum in the population of the North. Tularemia was first established among reindear.

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UDC 599.32

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USSR

DOBROKHOTOV, B. P., KOVALEVSKIY, Yu. V., ZHUKOV, V. I., and MOSOLOV, L. P.

*The Abundance of Small Rodents in the Fall of 1969 and Prognosis of Their Epizootic Status as Vularemia Vectors in the RSFSR in 1970"

Moscow, Byulleten' Moskovskogo Obshchestva Ispytateley Prirody, No 6, 1970, pp 46-55

Abstract: The estimates of rodent populations and forecasts of tularemia epizootics for 1970 are based on reports from all 71 republic, kray, and oblast sanitary-epidemiological stations of the RSFSR that reached the RSFSR Ministry of Health from 10 November to 15 December 1969. Employing the same Ministry of Health from 10 November to 15 December 1969. Employing the same analytical methods that they used for the 1969 forecasts, which proved to be analytical methods that they used for the disease were recorded among numans, quite accurate (a total of 5) cases of the disease were recorded among numans, somewhat more than in 1968), the authors predict that 1970 will be one of the mildest in the history of the USSR as far as tularemia epizootics are considered. Their optimism is based on sharply reduced numbers of rodents due to the unfavorable weather conditions that prevailed throughout most the RSFSR in 1969. If prophylactic measures are taken promptly in the few threatened localities identified, there should be only isolated cases among numan beings.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

USSR

UDC 534.86

KOVALGIN YU. A.

"On the Localization of an Apparent Source of Sound in Time Stereophonics"

V sb. Materialy nauch.-tekhn. konf. Leningr. elektrotokhn. in-ta svyazi.

Vyp. 3 (Materials of the Scientific-Technical Conference of Leningrad Electrical Engineering Institute of Communication. No. 3 -- Collection of Works),

Leningrad, 1971, pp 268-273 (from RZh-Fizika, No 3, Mar 72, Abstract No 32h563)

Translation: Subjective-statistical expertise was used to investigate the characteristics of the localization of an apparent sound source in time sterecphonics for the case of a symmetric position of the listener relative to the sound-producing units of a two-channel reproduction system. It is shown that the shape of the envelope of the power spectrum of the signal has a considerable effect on the nature of the displacement of the apparent sound source. Resume.

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USSR

UDC 621.791.756:621.747.58

YAKOVLEV, V. F., KOVALKIN, P. I., YEVDOKIMOV, N. I., KOZULIN, M. G., and SUSHCHUK-SLYUSARENKO, I. I.

"Electroslag Welding of Steel Casting Defects"

Kiev, Avtomaticheskaya Svarka, No 2, Feb 70, p 72

Abstract: A description is given of a technique of electrosian welding and building-up of steel casting defects. Using a water-cooled copper neaconsumble electrode, a slag bath is drawn which is then heated for a period of 15-60 min. During this time, the edges to be welded are heated to 800-1200°C, and under the effect of the heated slag the surface of the aperture is chemically cleaned. For welding the defect, the nonconsumable electrode is replaced by a spatial one which is consumable along the shape of the profile of the welded aperture. The direction of the fed welding wires plays an important role in the initial stage of fusion of the deposited metal.

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USSR

UDC 621.317.443

KOVAL'KO, L. H., SKORODUMOV, S. A., STARIKOV, I. V., TRET'YAKOV, L. H.

"Multichannel Analog Magnetic Measuring System"

Tr. VNII elektroizmerit. priborov (Works of the All-Umion Scientific Research Institute of Electrical Measurement Instruments), 1971, 7, pp 82-90 (from Referativnyy Zhurnal, Metrologiya i izmeritel'naya tekhnika, No 11, Nov 71, Abstract No 11.32.1752)

Translation: The parameters of a magnetic measuring system that is intended for measuring and recording magnetic field strength at ten points up to 3000 oe where the field varies with a frequency up to 30 Hz are given. The operation and characteristics of the field convertor in the form of a Hall transducer excited by an alternating current are described. Static and dynamic errors in the system are analyzed and methods for reducing them are noted.

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- 157 -

UNICASSIFICU PROCESSING DATE--0900:70 TITLE-EFFECT OF P TOLUALDEHYDE ON THE LIQUID PHASE OXIDATION OF P XYLENE IN THE PRESENCE OF CUBALT SALTS -U-AUTHOR-(05)-ARIKO, N.G., MITSKEVICH, N.I., LASHITSKIY, V.A., BUSLOVA, M.K. KOVALKOV, M.D. COUNTRY OF INFO-USSR

SOURCE-NEFTEKHIMIYA 1970, 10(1), 48-53

DATE PUBLISHED----70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS-ALDEHYDE, OXIDATION, XYLENE, COBALT COMPOUND, CARBON DIOXIDE

CONTROL HARKING-NO RESTRICTIONS

DUCUMENT CLASS-UNCLASSIFIED PRUXY REEL/FRAME--1992/1886

STEP NO-UR/0204/70/010/001/0048/0093

CIRC ACCESSION NO-APO112866

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

PROCESSING DATE--0900T70 UNCLASSIFIED 015 2/2 GIRC ACCESSION NO--APOL12866 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. ADDN. OF 4.5-10.5 MLLE PERCENT ? TOLUALDEHYDE INCREASED THE RATE OF DXIDN. AT 120DEGREES OF P XYLENE CONTG. 2 TIMES 10 PRIME NEGATIVES MOLE-L. CO STEARATE. AS THE AMT. C. ALDEHYDE WAS INCREASED, EVOLVED CO SUB2 INCREASED LINEARLY, ALDEHYDE CONTENT REMAINED CONST., AND ACID AND ETHER FORMATION INCREASED UP TO 0.58 MOLE-L. ALDEHYDE ADDED, AND REMAINED CONST. THEREAFTER. TAGGED ALDEHYDE EXPIS. SHOWED THAT CO SUB2 EVOLUTION OCCURRED BY DECOMPAGE OF PERTOLUIC ACID FORMED BY UXIDN. OF THE ALDEHYDE. USE OF BZH UNDER THE SAME CONDITIONS ALSO GAVE AN INCREASE IN RATE OF FORHATION OF P TOLUIC ACID AND CO SUB2: THE FORMER BECAME CONST. AT 0.2 MOLE-L. ALDEHYDE, THE FACILITY: INST. FIZ. ORG. KHIM., KINSK, USSR. LATTER AT 0.4.

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UDC 621, 373:536.531.08(088.8)

AZARKIN, V. A., KOVAL KOV. V. I.

"Frequency Sensor of Small Deviations of Active Resistances"

Priborostroyenive. Resp. mezhved. nauch.-tekhn. sb. (Instrument Making. Republic Interdepartmental Scienctific and Technical Collection), 1971, No 10, pp 63-68 (from RZh-Netrologiya i Izmeritel nava Tekhnika, No 10, Oct 71, Abstract No 10.32.1470)

Translation: A study was made of a method of converting small deviations of active resistances consisting in controlling the frequency of a generator with a frequency dependent RC-circuit by a variable voltage input to the phasing circuit in series with the active resistance and capacitance. This voltage is proportional to the output voltage of the generator and depends on the increment of the measured resistance. A frequency sensor of small deviations of active resistances with linear transformation characteristics was developed and investigated on the basis of this procedure. Expressions are presented for the frequency of the sensor and the conditions of linearity of the conversion functions. The errors of the frequency instability of the sensor are analyzed. An experimental dependence of the conversion functions is presented. The developed sensor is designed for measurement and remote measurement of small

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AZARKIN, V. A., et al., Priborostroyeniya. Resp. mezhved. nauch.-tekhn. sb., 1971, No 10, pp 63-68.

deviations of the active resistances and can also be used for conversion of the nonelectric variables to frequencies which can in one way or another affect the bibliography.

There are 2 illustrations and a 7-entry

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- 178 -

KOVAL'NOROV, A. F., GOLDOBEEV, B. I.

"The Analogy Factor in a Tube with Local Twisting of the Flow by Blade

Tr. Kazan. Aviats. In-ta, [Works of Kazan Avaiation Institute], 1971, Vol 133, pp 37-41. (Translated from Referativnyy Zhurnal Mekhanika, No 1, 1972, Abstract No 18864, by the authors).

Translation: The problem is studied of the correctness of the Reynolds analogy in a twisted flow of fluid in a channel. Experimental studies of heat emission and hydralic resistance in the tube are performed with blade vortexers with various twisting angles at the entrance to the tube. The results of the studies show that the hydrodynamic theory of heat exchange gives artificially high results in comparison to the experimental values of heat transfer coefficients throughout the range of Reynolds numbers studied. 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

UDG 612.8+612.766.1

NAVAKATYKYAN, C. O., KUNDIYEV, Yu. I., LYSYNA, G. G., PRINCHON, V. P., HRYSHKO, F. I., DERKACH, V. S., KAPSHUK, O. P., KYRYENKO, A. Ve., KARAKASHYAN, A. N., KOVALLOVA, G. I., RATUSHMA, A. M., TOMASHEVC'KA, L. I., NACOKNA, A. M., and MAYDYKOV, Yu. L., Kiev Institute of the Work Hygiene and Occupational

"Nervous Emotional Stresses as a Problem of Modern Work Physiology"

Kiev, Fiziolohichnyy Zhurnal, Vol 18, No 4, Jul/Aug 72, pp 535-546

Abstract: The introduction of machines and automatic control instrumentation into production lines at plants and factories and at many other institutions requires of workers rapid coordination of actions combined with mental activity. The volume of information input which requires a combination of physical and mental ability has been increasing tremendously for the last decade. This has produced nervous and emotional stresses and disturbances in the normal functions of many human organs. Analysis of many workers from various branches of industry as well as people occupied with mental work has shown that modern technology imposes heavy stresses on an individual which are accompanied by abnotral function of the adrenal glands, and hypothalamus, and the hypophysial and sympathoadrenal systems. Measurements have shown that corticosteroid blood and urine

NAVAKATYKYAN, O. O., et al., Fiziolohichnyy Zhurnal, Vol 18, No 4, Jul/Aug 72, pp 535-546

levels exceed the norm by as much as 42-57% in people under heavy stress. Emotional stress with distortion in the function of many systems were more often encountered among the young (17-18 year olds). These malfunctions included the secretion of adrenalin and noradremalin, and disturbances in hemodynamics. Shifts in physiological functions among different occupational groups under identical stresses occur at different times and are closely related to age. They were more pronounced among older people (31-40 years old). The cardiovascular system occupies a prominent place in labor physiology, and there are many methods and approaches to study it. Some literature methods and those of the authors are described, including instrumentation. Hental work which is accompanied by nervous-emotional stresses influences profoundly the cardiovascular system within a wide range of deviations, including pathological functional disturbances and hypertension. The same is true for other occupations as well. The authors recommend the rational use of working hours and rest periods to avoid overstresses.

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- 51 -

USSR

UDC 533.9.004.12:546.217

KOVALISKAYA, G. A., SEVASNIYANENKO, V. G., SOKOLOVA, I. A., Novosibirsk

"Thermodynamic Properties of Air at 12,000-25,000"K and 0.1-100 atm Considering the Reduction in Ionization Potential"

Zhurnal Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki, No. 1, 1972, pp. 15-22.

Abstract: The composition of air is calculated for pressures of 0.1, 1, 10 and 100 atm and temperatures of 12,000-25,000°K, considering Coulomb interactions, resulting in a significant increase in the electron component in comparison with an earlier work. Physically justified analytic expressions are selected, describing the composition produced and thermodynamic properties with satisfactory accuracy. The approximations produced are convenient for the solution of applied problems, since they require no iterations.

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Acc. Nr: AP0051924

Ref. Code: UR 0219

PRIMARY SOURCE:

Byulleten' Eksperimental'noy Siologii i Meditsiny, 1970, Vol 69, Nr 2 , pp 41-44

CONCERNING THE METHOD OF PRODUCING EXPERIMENTAL CHRONICAL PATHOLOGY OF THE LIVER

K. S. Kovalskaya, M. V. Rudenskaya, A. S. Gorin Sklifosovsky First-Ald Institute

To elucidate the action of sodium salicylate on the functional and morphological state of the liver, two experimental procedures were employed. In acute experiments, sodium salicylate was administered fractionally into the portal vein. In chronic experiments, the liver was examined after single, double and triple administrations of the agent. Observation was carried out during 2 years after the last administration. As evidenced from these experiments, sodium salicylate induces chronic pathology of the liver with sclerosis, distrophic alterations and reorganization of the parenchyma, increase in the portal pressure and enlargement of the spleen.

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UDG 636.22/28:576.8.097.29

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BOLTUSHKIN, A. N., KOVAL SKAYA, M. G., LUPANDINA, K. N., and STUPNIKOV, V. D., Leningrad Veterinary Institute; Leningrad Oblast Veterinary Laboratory

"Fusariotoxicoses of Cattle"

Leningrad, Mikologiya i Fitopatologiya, Vol 5, No 1, 1971, pp 75-76

Abstract: For a number of years, fusariotoxicoses of cattle that developed as a result of consumption of straw, grain, and stubble infected with Fusarium fungi have been observed in the USSR. In 1967-69, fusariotoxicosis of cattle occurred at the Experimental Model Farm Kolozhitsy in Volosovsk Rayon, Leningrad Oblast', after the cattle had been driven to pusture on a harvested rye field. The symptoms and pathological-anatomical changes in the diseased cattle were identical with those observed in cattle upon experimental feeding of grain infected with Fusarium sporotrichialla. Symptomatic treatment was applied. F. graminearum and F. oxyspoxum were isolated from samples of straw stalks, ears, and rye grains collected from the field and used as feed by the cattle. The degree of infection of the feed with these fungi was 40-100%. The cultures of fungi that were isolated were considered toxic on the basis of lethality for Paramecia caudata and the effect on the 1/2

- 101 -

BOLTUSHKIN, A. N., et al., Mikologiya i Fitopatologiya, Vol.5; No 1, 1971,

skin of rabbits of other extracts of the fungi. Similar symptoms were PP 75-76 shown in 1962 by cattle on the farm in question, but the dispase was not

identified then.

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UDC 615.372:576.851.49].07

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SHAPIRO, N. I., VASIL'YEVA, T. G., MOSKVICHEVA, I. V., DUDKINA, M. I., KRUGLIKHINA, Z. M., SAZONETS, G. I., OZERETSKOVSKIY, N. A., BALATAN, V. D., and KOVAL'SKAYA, S. Ya., Leningrad Institute of Vaccines and Sera and State Control Institute of Medical Biological Preparations imeni Tarasevich, Moscow

"Molecular Heterogeneity of Endotoxins Extracted From the Typhoid-Paratyphoid Group of Bacilli. Report II. Antigenic Structure and Biological Activity of High and Low-Molecular-Weight Fractions"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 11, 1971, pp 35-39

Abstract: By means of sepharose 2B columns, endotoxin extracts from typheid (4445) and paratyphoid B (50602) bacilli can be separated into a high-molecular-weight and a low-molecular-weight fraction. Components of the latter fraction retain some serological specificity but are nontoxic, exert a low protective activity, and display no stressor activity. On the other hand, components of the high-molecular-weight fraction have a full antigenic structure, are highly immunogenic and toxic, and display pronounced stressor activity. The high-molecular-weight fraction is the carrier of the biological preparties of typhoid and paratyphoid endotoxing.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

(4)

USSR

UDC 669.24:548.4

POPOV, L. YE., TERESHKO, I. V., GORENKO, L. K., KONEVA, N. A., KOZLOV, E. V., and KOVALEVSKAYA, T. A., Siberian Physicotechnical Institute intent V. D. Kuznetsov and Tomsk Engineering Construction Institute

"Dislocation Structure of Ni3Al at Different Stages of Deformation"

Sverdlovsk, Fizika Metallov i Metallovedeniye, Vol 35, No 2, Feb 73, pp 409-418

Abstract: This study was conducted to study the change in the nature of dislocation structure in intermetallide Ni₃Al with increasing degree of deformation. Alloys with nickel and 22.9 and 24.0 at. All were investigated to which deformations of 1-12% were applied. At small degrees of deformation (1-2%) interlaces of dislocations were extended along slip traces and the average distance between slip traces was 8300 A. The number of interlaces and dislocation density increased with increased deformation. Plastic deformation of Ni₃Al results in the generation of three types of dislocations two of which are inherently located in octahedral planes and one -- cubic planes. In the deformed alloy numerous wide stacking faults are observed when alloy composition is close to stoichiometric and the energy of the stacking faults amounts to 29 erg/cm² for the alloy with 24.0 at. Al. At high degrees 1/2

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POPOV, L. YE., et al., Fizika Metallov i Metallovedeniye, Vol 35, No 2, Feb 73, pp 409-418

of deformation, dislocation interlacings are noted which form a cellular structure. 9 figures, 22 bibliographic references.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3" USSR

UDC 621.371:551.510.535

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KERBLAY, T. S., and KOVALEVSKAYA, Ye. M.

"Focusing a Bundle of Rays in a Three-Dimensional Monumiform Ionosphere"

Moscow, V sb. X Vses. konf. po rasprostr. radiovoln. Tesisy dokl. Sekts. 1 (Tenth All-Union Conference on the Propagation of Radio Waves; Report Theses; Section 1--collection of works) "Naukn," 1972, pp 296-298 (from RZh--Radiotekhnika, No 10, 1972, Abstract No 10A328)

Translation: The focusing/defocusing characteristics of the horizontal nonuniform ionosphere are estimated in comparison with the spherical-symmetrical ionosphere. As the ionosphere model, use is made of a single-layer ionosphere with parabolic ionization distribution over the altitude, and with gradients of electronic concentration along the radio line direction and in the transverse direction. The presence of strong dependence of the focusing characteristics on the direction of the electron demonstration gradient is demonstrated. One illustration, bibliography of two. N. S.

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- 33 -

1/2 018 UNCLASSIFIED PROCESSING DATE-- 160CT70
TITLE--THE PHYSICU CHEMICAL FOUNDATIONS OF THE APPLICATION OF HIGH

DISPERSED AEROSOLS FOR PEST CONTROL -U-

AUTHOR-(02)-KOVALSKIY, A.A., KOUTSENDGIY, K.N.

COUNTRY OF INFO--USSR

SOURCE--IZVESTIYA SIBIRSKOGO OTDELENIYA AKADEMII NAUK SSSR, NO 4, SERIYA KHIMICHESKIKH NAUK, 1970, NR 2, PP 3-12 DATE PUBLISHED-----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES
TOPIC TAGS--AEROSOL, PEST CONTROL

CONTROL MARKING--NO RESTRICTIONS .

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1994/0140

STEP NO--UR/0289/70/000/000/0003/0012

CIRC ACCESSION NO--APO114536

UNCLASSIFIED

PROCESSING DATE--160CT7C UNCLASSIFIED 2/2 018 CIRC ACCESSION NO--APO114536 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE FEATURES OF THE APPLICATION OF HIGH DISPERSED AEROSULS FOR PEST CONTROL IS DISCUSSED. THE ADVANTAGES OF THIS PEST CONTROL METHOD WAS SHOWN. THE CONCEPT DOSE LINE INTEGRAL OF CONCENTRATION OVER TIME) IS USED TO EXPLAIN THE REQUITION OF SPECIFIC EXPENSE OF INSECTICIDE WITH THE APPLICATION OF A POWERFUL AEROSOL GENERATOR. SUPPOSING THE COEFFICIENT OF THE TURBULENT DIFFUSION AND WIND ARE CONSTANT, THE DOSE AT VARIOUS DISTANCES FROM THE AEROSOL GENERATOR WAS CALCULATED. THE DOSE WAS ALSO MEASURED IN THE FIELD EXPERIMENTS. THE EXPERIMENTAL DATA ARE IN ACCORDANCE WITH CALCULATE. FACILITY: INSTITUT KHINICHESKOY KINETIKI I GORENIYA SO AN SSSR. NOVOSIBIRSK.

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UNCLASSIFIED PROCESSING DATE--27NDV70
1/2 038
TITLE--SINGLE ELECTROSTATIC LENS FOR FORMING INTENSE ION BEAMS -U-

AUTHOR-102)-KOVALSKIY, G.A., BUYANKIN, A.A.

COUNTRY OF INFO--USSR SOURCE--RADIOTEKHNIKA (ELEKTRONIKA (RADIO AND ELECTRONICS), 1970, NO 2,

PP 367-370
DATE PUBLISHED----70

SUBJECT AREAS -- ELECTRONICS AND ELECTRICAL ENGR., PHYSICS

TOPIC TAGS--OPTIC SYSTEM, ION BEAM, OPTIC LENS, ELECTRODE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/1856

STEP NO--UR/0109/10/000/003/0358/4370

G-18C ACCESSION NO--190130683

UNCLASSIFIED

PROCESSING DATE--27NOV70

CIRC ACCESSION NO--APOL30683

ABSTRACT/EXTRACT--(U) 59-0- ABSTRACT. AN ION OPTICAL SYSTEM COASISTING
OF AN IMMERSION LENS OF THE PIERCE TYPE IDGETHER WITH SINGLE
ELECTROSTATIC LENS HAVING A CENTRAL ELECTRODE OF SPECIAL COAFIGURATION
AND AN ADDITIONAL BLOCKING ELECTRODE IS DESCRIBED. THIS SYSTEM MAKES IT
AND AN ADDITIONAL BLOCKING ELECTRODE IS DESCRIBED. THIS SYSTEM MAKES IT
POSSIBLE TO OBTAIN CYLINDRICAL ION BEAMS WITH MICROPERVEAUCE GREATER
THAN UNITY.

UDC 616.61-002.151-022.6-057

KOVAL'SKIY, G. S., VOSTRIKOV, L. A., and ZAKLINKOV, L. G., Khabarovsk Medical Institute and Khabarovskiy Kray Sanitary Epidemiological Station

"Occupational Characteristics of Hemorrhagic Fever With a Renal Syndrome in the Middle Amur Region"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunchiologii, No 10, 1971, pp 147-148

Abstract: Hemorrhagic fever with a renal syndrome is transmitted mainly by rodents. Hence persons who work regularly or even briefly in wooded areas and farms are likely to come into contact with these animals, and their excretions and contract the disease. The following groups are particularly endangered: (a) geological prospectors, foresters, etc.; (b) persons engaged in disinfectant work and rodent extermination, biologists and others who check on this work; (c) zoologists, entomologists, and parasitologists and others engaged work; (c) zoologists, entomologists, and parasitologists and others engaged in studying small wild mammals in the field and in the laboratory; (d) farming the take care of cattle and harvest crops; (e) tractor and truck drivers and mechanics who work in rural areas; (f) persons engaged in lumbering and in the procurement, transport, and primary processing of wood.

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Pathology

USSR

UDC 616.61-002.151-022.6-008.9

KONTSEVAYA, N. G., KONSTANTINOV, A. A., SHAPIRO, S. Ye., and KOVAL'SKIY, G. S., Khabarovsk Medical Institute

"Some Indices of Protein Metabolism and Vitamin Balance in Patients With Far-Eastern Hemorrhagic Fever With a Renal Syndrome"

Moscow, Voprosy Meditsinskoy Khimii, Vol 16, No 4, Jul/Aug 70, pp 376-381

Abstract: A study was made of 269 patients suffering from Far-Eastern hemorrhagic fever with a renal syndrome. During the first I weeks of the illness, a high degree of azoremia is present which is caused by the specific tissue processes as well as by the disturbance of kidney function. The increased porosity of vascular walls accounts for the hemorrhagic syndrome. The decomposition of tissue proteins, vomiting, and dehydration which are characteristic of the syndrome are conditioning factors in the extra-renal arctemia. The content of amino acids and proteins in serum is distorted. Loss of watersoluble vitamins C and P is not compensated by their administration, an indication that the condition is endogenous. Oliguria (200-300 ml perday) or even anuria during the first week is followed by polyumia the second week (6,000-8,000 ml), but elimination of urea nitrogen is still below normal. 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

KONTSEVAYA, N. g., et al, Voprosy Meditsinskoy Khimii, Vol 15, No 4, Jul/Aug 70, pp 376-381

It is believed that the disproteinemia, which involves all proteins, tyrosine, tryptophan, xanthurenic acid, and vitamins C and P, is caused by a disturbance in the proteolytic enzyme system, since some distortion remains even during the convalescent period in the fourth week.

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USSR

U00 616.61.000.151-050

KOVALISKIY, G. S., Chair of Infectious Disgases, Anabardvan Medical Institute

"Principles Underlying the Organization of Treatment of Patients with Hemographic Fever with a Renal Symirone"

Moscow, Sovetskaya Meditsina, No 2, 1970, pp 131-134

Abstract: Homorrhagic fever with a renal syndrome (nephrosomeparitis) is a common disease in rural areas of the far East. Patients cannot be given proper treatment in local hospitals because of diagnostic problems and the need for special equipment (o.g., artificial kidney), various tests and parsonnel to perform and interpret them, trained physicians, etc. It is recommended, therefore, that all interpret them, trained physicians, etc. It is recommended, therefore, that all eases be promptly and carefully transported to nodern regional or notropolitan hospitals using airplanes, helicopters, railroads, or ampulances for this purpose. The dangers of injury en route are much less of a threat to life than those incurred when the patient is treated in a local institution. A study of the incurred when the patient is treated in a local institution. A study of the incidence of hemorrhagic fever in Khabarovsk Rayon in 1964-1965 rovealed a nortality rate of 1.06% for patients brought to hospitals in the city of shabarovsk, as compared with 3.3% for those treated locally.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201520015-3"

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UDG: 533.95:537.84

KOVALEVSKIY, I. V.

"Measurement of Magnetic Fields and Plasma on Space Probes"

Moscow, Izmereniye magnitnykh poley i plazmy na kosmicheskikh apparatakh (cf. English above), "Nauka", 1973, 270 pp, ill. 1 r. 92 k. (from RZh-Fizika, No 6, Jun 73, abstract No 6G12 K)

Translation: The book constitutes a summary and interpretation of the results of direct measurements of magnetic fields and plasma made on spacecraft in the interplanetary medium, in the earth's magnetosphere, in the region of interaction of solar plasma fluxes with the geomagnetic field, and also in the vicinities of the moon and Venus. The book incorporates data published in 1967. Given for each vehicle are the launch date, orbit parameters, useful lifetime, instrument package (magnetometric equipment, plasma probes), principal research results and their interpretation.

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vDC 535.36

POLYANSKIY, V. K., KOVALLSKIY, L. V. "Scattering of Coherent Radiation by a Rough Surface".

Leningrad, Optika i Spektroskopiya, Yol 31, No 5, 1971, pp 784-787

Abstract: Although a good deal of work has been devoted to the optical characteristics of rough surfaces, it has considered those characteristics for light with a low coherence factor. In view of the development of coherent optics in general and holography in particular, research of the type done in this paper, involving the use of coherent light on rough surfaces, is important. The authors develop a formula to describe the structure of the field of the scattered radiation in a scalar approximation, without taking polarization into account. The result of the theory is compared with the experimental results. It is asserted that the results obtained can be used as a guide for planning holographic experiments. The article is illustrated with photos of the structure of the field formed by the scattering of coherent light when passed through frosted glass.

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1/2 044 UNCLASSIFIED PROCESSING DATE--04DECTO TITLE--INVESTIGATION OF THE POSSIBILITY OF USING THE HOLDGRAPHY METHOD

WITHOUT A REFERENCE BEAM -U-

AUTHOR-(02)-KOVALSKIY, L.V., POLYANSKIY, V.K.

COUNTRY OF INFO--USSR

SOURCE-OPTIKA I SPEKTROSKOPIIA, VOL. 28, FEB. 1970, P. 338-341

DATE PUBLISHED --- FEB 70

SUBJECT AREAS--PHYSICS

TOPIC TAGS -- HOLOGRAM, LASER BEAM, COHERENT LIGHT

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1992/1481

STEP NO--UR/0051/70/028/000/0338/0341

CIRC ACCESSION NO--APO112475

UNCLASSIFIED PROCESSING DATE--04DEC70 2/2 044 CIRC ACCESSION NO--APOL12475 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THEORETICAL AND EXPERIMENTAL INVESTIGATION OF THE POSSIBILITY OF OBTAINING A HOLOGRAM GENERATED IMAGE OF AN ARBITRARY OBJECT, IN THE CASE WHERE THE HUMBOGRAM IS FORMED WITHOUT MAKING USE OF A REFERENCE BEAM BY ILLUMINATING THE TRANSPARENCY BY COHERENT LASER LIGHT. THE PROCESS OF FORMATION UP A HOLOGRAM WITHOUT THE USE OF A REFERENCE BEAM IS ANALYZED, AND THE THEOMETICAL CONSIDERATIONS ARE FOUND TO BE CONFIRMED BY HOLDGRAMS DETAINED FOR CONTINUOUS OBJECTS (TRANSPARENCIES) AND OBJECTS COMSISTING OF SEVERAL POINTS. HOLOGRAMS OBTAINED WITHOUT A REFERENCE BEAM, MOWEVER, CANNOT COMPETE WITH RESPECT TO BRIGHTNESS WITH CONVENTIONAL INDEGRAMS. THEIR USE IS INDICATED ONLY WHEN A REFERENCE BEAM IS NOT AVAILABLE.

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